



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,622	03/25/2004	Brad Bridges	2003P04330 US01	7471
7590		02/22/2008		
Elsa Keller Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830			EXAMINER NGUYEN, KHAI N	
			ART UNIT 2614	PAPER NUMBER
			MAIL DATE 02/22/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/809,622	Applicant(s) BRIDGES ET AL.	
	Examiner Khai N. Nguyen	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5, 7, 9-15, 17 and 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7, 9-15, 17 and 18 is/are rejected.
- 7) ☒ Claim(s) 7 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on November 27, 2007 has been entered. Claims 1 and 11 have been amended. Claims 6, 8 and 16 have been canceled. No claims have been added. Claims 1-5, 7, 9-15, 17, and 18 are still pending in this application, with claims 1 and 11 being independent.

Claim Objections

2. Claims 7 and 9 are objected to because of the following informalities: Claims 7 and 9 claimed "The method of claim 6, - - - ", but claim 6 being canceled. Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1-3, 7, 9-13, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorshe et al. (U.S. Patent Number 5,355,362 hereinafter "Gorshe") in view of Biegel et al. (U.S. Patent Number 5,608,720 hereinafter "Biegel").

Regarding claims 1 and 11, Gorshe teaches a method and an apparatus for providing a remote (Fig. 1, REMOTE DIGITAL TERMINAL (RDT)) with a stand alone capability to connect calls independently (Fig. 1, SUBSCRIBER 1-N), wherein the remote normally connects through a host (Fig. 1, CENTRAL OFFICE TERMINAL (CO)) that provides call connectivity to a remote user (Fig. 1, Fig. 5, COMMON MODULE 20, Fig.9, REMOTE SWITCH UNIT 27 (RSU), col. 8 lines 29-32, i.e., stand-alone switching operation of an RDT in the event of a failure of the communication link between the host and the RDT), comprising the steps of:

downloading data from the host to the remote needed for basic connectivity (Fig. 3, CC & I UNIT 32 (Common Control and Interface), Fig. 5, 21, 32 CC & I, col. 3 lines 35-40, and col. 6 lines 18-21);

triggering the stand alone capability upon the detection communication link failure between the remote and the host (Figs. 6-9, Figs. 8(a)-8(d), CO, RDT 1-3, Figs. 9(a)-9(d), Figs. 12a-12(e), col. 10, lines 6-25, col. 13 lines 40-45, and lines 53-57, i.e., detects a fault on any of the working line signals).

providing at least one service that effects the stand alone capability, the service being an administration change notification service providing notification that administration changes have been made to Subscriber Data required by the remote for call connectivity (Fig. 5, 22 CCS GLOB. & EOC (Common Channel Signaling Global & Embedded Operation Channel unit), col. 6 lines 29-36, i.e., performs layer 2 (LAPD - Link Access Protocol for Data channel) and layer 3 (routing) processing, and lines 51-

56, i.e., message processing is performed by the service definition module and the low speed interface unit "Subscriber Data").

However, Gorshe does not specifically disclose the administration notification service. Although, Gorshe teaches the LAPD protocol to process common channel signaling (CCS), time slot management (TMC) messages and communicate provisioning functions to the service definition module or the low-speed interface units "Subscriber Data" (Gorshe - Fig.5, col. 6 lines 29-68, and col. 7 lines 1-4).

In the same field of endeavor, Biegel teaches an integrated digital loop carrier (IDLC) and the RDT (Biegel - Fig. 1) which operate with a control system comprising software subsystems in accordance to the Open System Interconnect protocol (i.e., layer 2 LAPD, layer 3 TR-303) (Biegel - Fig. 1, Fig. 2B, col. 1 lines 21-31, col. 10 lines 8-12, and lines 49-53), and the Administrative Subsystem provides an administration change notification (Fig. 4, 418, Fig. 34 Administrative Subsystem Software Hierarchy, col. 38 lines 14-22, lines 64-67, and col. 39 lines 1-8). The advantage of Biegel is the system/subsystem software being implemented according to the standard OSI architecture, therefore, will save costs to replace existing equipment to achieve a standard interface (Biegel - col. 2 lines 31-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the administration change notification

service, as taught by Biegel, into Gorshe's method and apparatus in order to enhance the inter-module protection switching functionality.

Regarding claims 2-3 and 12-13, Gorshe teaches an apparatus and a method, wherein the step of downloading downloads line data needed for connecting calls (Fig. 3, CC & I UNIT 32 (Common Control and Interface), Fig. 5, 21, 32 CC & I, col. 3 lines 35-40, and col. 6 lines 18-21), and wherein the step of downloading downloads call services to support a minimum quality of service (col. 5 lines 24-30).

Regarding claim 7, Gorshe teaches a method wherein the service is a download service (col. 6 lines 18-21).

Regarding claims 9 and 17, Gorshe teaches an apparatus and a method, wherein the service is a Database Synchronization and Status Service that provides a mechanism to ensure that administration changes to subscriber data are properly reported to the remote (col. 6 lines 3-6, and lines 10-14).

However, Gorshe does not specifically disclose the database synchronization.

Biegel teaches the databases automatically synchronized all changes for the databases (Biegel – Database Management, col. 20 lines 8-20). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the database synchronization, as taught by Biegel, into Gorshe's

method and apparatus in order to enhance the inter-module protection switching functionality.

Regarding claims 10 and 18, Gorshe teaches an apparatus and a method, wherein the remote is a remote digital terminal (RDT) that operates in compliance with the GR303 standard (col. 2 line 68, col. 3 lines 1-4, and col. 4 lines 67-68, i.e., Bellcore TR-TSY-000303 (TR-303 - Technical Requirements TR-303 now turned into Generic Requirements GR-303)).

5. Claims 4-5 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorshe in view of Biegel, and further in view of Ardon (U.S. Patent Number 5,850,434).

Regarding claims 4-5 and 14-15, Gorshe and Biegel disclose everything claimed as applied above (see claims 3 and 13). However, they do not specifically disclose wherein the data is Centrex data and/or multi line hunt group data.

In the same field of endeavor, Ardon discloses the process of multi-line hunt group (Ardon – Fig. 9, col. 12 lines 3-20), and Centrex data (Ardon – Fig. 14, 1110, col. 14 lines 65-67, and col. 15 lines 1-4, lines 52-65). The advantage of Ardon's invention is a subscriber station can be seen as if it were connected to a network even if it is connected to a switch "Remote Digital Terminal" (Ardon – col. 3 lines 40-45).

Therefore, it would have been obvious to person of ordinary skill in the art at the time the invention was made to modify Gorshe's method and apparatus with the improved process to provide Centrex and multi-line hunt group data.

Response to Arguments

6. Applicant's arguments with respect to claims 1-5, 7, 9-15, 17, and 18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Application/Control Number:
10/809,622
Art Unit: 2614


Page 8

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai N. Nguyen whose telephone number is (571) 270-3141. The examiner can normally be reached on Monday - Thursday 6:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F. Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KNN
02/06/2008


AHMAD MATAR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600